

5 associated with a received data packet in response to satisfying filter criteria associated with at
6 least one filter; and
7 a controller coupled to the network interface, to dynamically create and remove the filters
8 controlling access to the different service levels based, at least in part, on an admissions profile.

Sub D' 2 (Amended) The apparatus of claim 1, wherein the at least one filter when
1 triggered, initiate an admission control decision preventing premature allocation of service level
2 resources which are not yet required or authorized.
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1 3. (Amended) The apparatus of claim 2, wherein each of the filters is triggered by
2 information contained within the received data packet.

1 4. (Amended) The apparatus of claim 3, wherein each of the filters is triggered by
2 one or both of packet source information and packet destination information.

1 5. The apparatus of claim 1, wherein the admissions profile is stored in a
2 communicatively coupled remote device.

1 6. The apparatus of claim 5, wherein the communicatively coupled remote device is
2 a bandwidth broker or other generic policy server.

1 7. The apparatus of claim 1, wherein the admissions profile is available locally
2 within the apparatus.

1 8. (Amended) The apparatus of claim 1, wherein the controller establishes an
2 ingress profile in response to detecting an associated trigger event, wherein the ingress profile
3 modifies the received data packet adhering to the filter criteria to denote a particular service
4 level, in accordance with the admissions profile.

1 9. The apparatus of claim 8, wherein the controller removes ingress profiles when
2 data packets adhering to the filter criteria are no longer received, liberating apparatus resources.

1 10. The apparatus of claim 8, wherein the controller removes ingress profiles after a
2 predetermined period of time, liberating apparatus resources.

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1 11. (Amended) The apparatus of claim 1, wherein the controller removes at least one
2 of the filters in accordance with a network administration policy.

1 12. (Amended) The apparatus of claim 11, wherein the controller removes at least
2 one of the filters based, at least in part, on time-of-day.

1 13. (Amended) A method for controlling provision of differentiated services in a data
2 network, the method comprising:

3 (a) installing a filter on a network edge device to provide a trigger notification upon
4 detecting data packets adhering to filter criteria;

5 (b) determining whether a received data packet satisfies the filter criteria; and

6 (c) issuing a command by a bandwidth broker to a controller of the network edge
7 device to dynamically install or remove a filter in response to determining whether the received
8 data packet satisfies the filter criteria.

1 14. (Amended) The method of claim 13, further comprising (d) marking the received
2 data packets adhering to the filter criteria according to a subscribed service level.

1 15. (CANCEL)

1 16. (New) The method of claim 14, wherein the marking of the received data packet
2 includes setting a logic value of a bit in a Type of Service (ToS) field of a header of the data
3 packet.

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1 17. (New) The method of claim 14 further comprising:

2 (e) identifying and marking the received data packets with routing information in
3 accordance with the subscribed service level.

1 18. (New) The method of claim 17 further comprising:
2 (f) placing the data packets in a proper format for transmission.

1 19. (New) The apparatus of claim 1, wherein the classifier marks a Type of Service
2 (ToS) field of the received data packet to denote a level of service for transmission of the data
3 packet.

1 20. (New) The apparatus of claim 1, wherein the controller further dynamically
2 controls access to at least one classifier profile in accordance with the admission profile.

1 21. (New) An apparatus adapted to facilitate communications between a client device
2 and a remote device, comprising:
3 filter means for controlling access to different service levels;
4 means for classifying and marking one of the service levels associated with the received
5 data packet in response to satisfying filter criteria associated with the filter means; and
6 control means for dynamically creating and removing a portion of the filter means based
7 at least in part on an admission profile.

1 22. (New) The apparatus of claim 21, wherein the admissions profile is stored in a
2 communicatively coupled remote device.

1 23. (New) The apparatus of claim 22, wherein the communicatively coupled remote
2 device is a bandwidth broker or other generic policy server.

1 24. (New) The apparatus of claim 21, wherein the filter means comprises a plurality
2 of filters.

1 25. (New) The apparatus of claim 24, wherein the control means removes at least one
2 of the filters in accordance with a network administration policy.

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26. (New) The apparatus of claim 25, wherein the control means removes at least one of the filters based, at least in part, on time-of-day.
